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# 蝠蛾属二新种
## （鳞翅目：蝙蝠蛾科）

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本文记述蝠蛾属 *Hepialus* 二新种，模式标本保存于中国科学院昆明动物研究所。

**双带蝠蛾 *Hepialus bibelteus* Shen *et* Zhou，新种**（图1～4）

雄性：体长10.5 mm，翅展30.5 mm。雌性：体长20.0 mm，翅展40.5 mm。

复眼黑色，触角丝状，喙短小可见，下唇须短3节，周围多毛；前胸背板黄色，中胸背板，腹部至腹末端深褐色，在翅中部有一个由小黑点环围呈椭圆形斑文，翅近外缘处有二条黑带；前翅 Cup 脉近基部及近端有二横脉和 A 脉相连，A 脉伸达翅缘，后翅深褐色，Cup 脉赤长，前足有胫距，各足爪弯曲[1,2,3]，雄性外生殖器见图1。瓣钩有小齿，抱器瓣上着生密毛，背兜呈长椭圆形，下部骨化暗区黑色，囊形突上部弧形突起，下部外

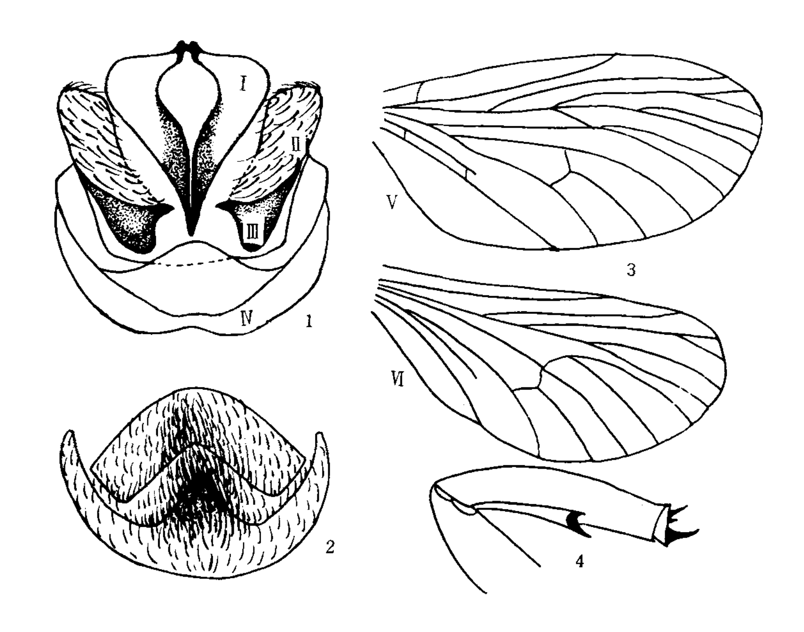



图1～4　双带蝠蛾 *Hepialus bibelteus* Shen *et* Zhou，sp. nov.
1. 雄性外生殖器后面观：Ⅰ. 背兜，Ⅱ. 抱器瓣，Ⅲ. 抱瓣钩，Ⅳ. 囊形突；
2. 雌性外生殖器后面观；3. 翅脉：Ⅴ. 前翅 Cup 脉，Ⅵ. 后端 Cup 脉；4. 前足

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缘内陷；雌性外生殖器（图2）第9腹板中叶呈三角形突起，中叶及周围被密毛，明显呈被毛区[1,3,4]。

该新种似同属的模式种 *Hepialus armoricanus* Oberthiir（1909），其主要区别是：前翅 Cup 脉与 A 脉之间有二横脉相连，背兜细光，抱器瓣、抱器构不同。

正模♂，配模♀，副模1♀，云南德钦县白马雪山梅度通；北纬28°23′，东经99°01′，海拔4500m；1987. Ⅻ. 16；沈发荣、鲁自采。

**宽兜蛾 *Hepialus latitegumenus* Shen *et* Zhou，新种**（图5～7）

雄性：体长13.5 mm，翅展30.5 mm。雌性：体长15.0 mm，翅展35.0 mm。

复眼黑色，触角丝状，各节具细毛，喙短，下唇须亦短，周围被密毛；前翅 Cup 脉短，Cup 脉与 A 脉中段处有一横脉相连，A 脉长达翅缘，前足有胫距，各节爪弯曲，有中垫；雌性外生殖器（图5）瓣端有一钩，抱器瓣钩粗短，中部稍弯曲，背兜下部细长，从上至下有明显的骨化区；雌性外生殖器（图6）第9腹板中叶呈圆弧形突起，突出部分的色较深，两边具有膜状物，中叶邻部被密毛[1,2]。

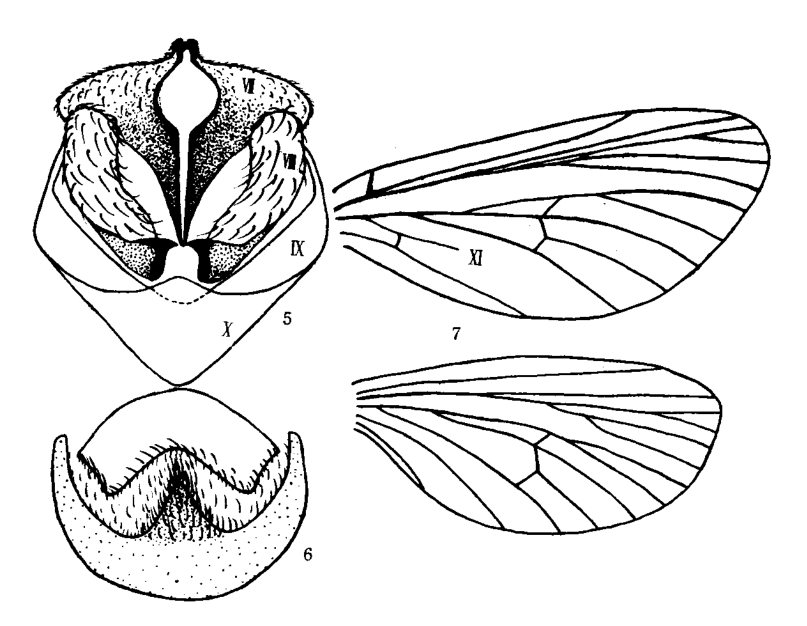



图5～7　宽兜蝠蛾 *Hepialus latitegumenus* Shen *et* Zhou，sp. nov.
5. 雄性外生殖器后面观：Ⅵ. 背兜，Ⅷ. 抱器瓣，Ⅸ. 抱器钩，Ⅹ. 囊形突；
6. 雌性外生殖器后面观；7. 翅脉：Ⅺ. 前翅 Cup 脉

本新种似前二新种双带蝠蛾 *H. bibelteus*，尤其是抱器瓣钩与背兜的大体形状，其主要区别是：前翅 $M_2$ 和 $M_3$ 之间有一横脉相连，Cup 和 A 脉间仅有一横脉，雄性外生殖器背兜下部细光，上部宽，抱器兜钩比双带蝠蛾弯；雌性外生殖器交尾口上下部的三角形不同。

正模♂，配模♀，云南德钦县白马雪山，北纬28°23′，东经99°01′，海拔4 500 m；1987. Ⅻ. 10，沈发荣、春生采。

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# TWO NEW SPECIES OF THE GENUS *HEPIALUS* FROM YUNNAN, CHINA (LEPIDOPTERA: HEPIALIDAE)

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**Abstract** In the present paper two new species of the genus *Hepialus* collected from the Baima Snow Mountain of Yunnan are described. All types are deposited in Kunming Institute of Zoology, Academia Sinica, Kunming, China.

***Hepialus bibelteus* Shen *et* Zhou, sp. nov.** (figs. 1～4)

Body ca. 10. 5mm, wing ca. 30. 5 mm in length; Body ca. 10. 5mm, wing ca. 30. 5 mm in length.

Compound eye dark. Antennae filiform and with a few setae on it, labial palps present. Fore tibiae with spurs. There are two cross vein between Cup and A (fig. 3). Female terminalia as shown in fig. 2. In the male terminalia (fig. 2), valve with one black acute tooth at the base part. Tegument strongly sclerotized at the top and from middle to terminal part. Posterior margin of saccus concaved at the middle part.

This species is related to *H. armaricanus* Oberthiir (1909), but differs from it in having two cross vein between Cup and A on fore wing and male terminalia in detail.

Holotype ♂, Meidu (28°22′N, 90°01′E.), Baima Snow Mountain, Deqing County, 4500m, Yunnan Province, July 16, 1987, collected by Shen Farong, Lou Zi.

Allotype ♀, same data as the holotype. Paratype 1♀, ditto.

***Hepialus latitegumenus*** **Shen *et* Zhou, sp. nov.** (figs. 5～7)

Body ca. 13. 5 mm, wing ca. 15. 0 mm in length; Body ca. 15. 0 mm, wing ca. 35. 0 mm in length.

Compound eye dark. Antennae filiform with small hairs. Labial palps present and short. The vein Cup of fore wing short and a cross vein between Cup and A. A cross vein also present between $M_2$ and $M_3$ (fig. 7). Fore tibae with spurs. Male (fig. 5) valve of clasper with one short black acute tooth at the base part, slightly curved at the middle part. Tegument tapering ventrally, widening subdorsally and sclerotized from dorsal to ventral part. The middle lobe of 9th sternum convex, black and with densely hairs and membrane in female.

This species resembles the foregoing species *H. bibelteus* Shen *et* Zhou, sp. nov, especially in having similar valve and tegument. But the species can be distinguished from it by having a cross vein between $M_2$ and $M_3$, only one cross vein between Cup and A, tegument more sclerotized and wider dorsally, clasper hook much curved and also female terminalia in detail.

Holotype ♂, Baima Snow Mountain (28°23′N, 99°01′E), Deqing County, 4500m, Yunnan Province, July 10, 1987, collected by Shen Farong and Chuen Sheng.

Allotype ♀, same data as for the holotype.